



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <p>(21) International Application Number: PCT/US99/20948<br/>(22) International Filing Date: 14 September 1999 (14.09.99)<br/>(30) Priority Data:<br/>60/100,137 14 September 1998 (14.09.98) US<br/>(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application<br/>US 60/100,137 (CON)<br/>Filed on 14 September 1998 (14.09.98)<br/>(71) Applicant (for all designated States except US):<br/>DANA-FARBER CANCER INSTITUTE [US/US];<br/>44 Binney Street, Boston, MA 02115 (US).<br/>(72) Inventors; and<br/>(75) Inventors/Applicants (for US only): DUKE-COHAN,<br/>Jonathan, S. [IL/US]; 93 Parker Avenue, Newton Highlands, MA 02161 (US). SCHLOSSMAN, Stuart, F. [US/US]; 1 Fox Place, Newton Centre, MA 02195 (US).<br/>(74) Agent: FRASER, Janis, K.; Fish &amp; Richardson P.C., 225 Franklin Street, Boston, MA 02110-2804 (US).</p> | <p>(81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).<br/><br/><b>Published</b><br/><i>With international search report.<br/>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> |  |
| <p>(54) Title: REGULATION OF IMMUNE RESPONSES BY ATTRACTIN</p>   |  |  |
| <p>(57) Abstract</p>   |  |  |
| <p>The invention features attractin polypeptides and nucleic acids encoding them. The attractin polypeptides are useful for enhancing immune responses.</p>  |  |  |